

Title (en)

A ring valve assembly for a reciprocating fluid pump

Title (de)

Ringventilplattenanordnung für eine Fluidverdrängerpumpe

Title (fr)

Dispositif de soupape annulaire pour une pompe de fluide à mouvement alternatif

Publication

**EP 0522745 B1 19960515 (EN)**

Application

**EP 92305789 A 19920624**

Priority

- US 72103591 A 19910626
- US 89774092 A 19920618

Abstract (en)

[origin: EP0522745A1] A ring valve assembly for use in a reciprocating type fluid pump with a piston cylinder and a cylinder head includes a ring valve (50) having a fluid seal surface for selectively closing a fluid passage of a cylinder head and an annular ring retainer (115) having a fulcrum edge (115a) and tapered top surface (115b). The retainer (115) is positioned beneath the ring valve (50) and a slight clearance (C3) is designed in such that the ring valve (50) experiences as a first stage of movement/deflection slight vertical travel. Continued operation of the fluid pump results in a second stage of deflection where the ring valve (50) deflects into a frustoconical shape and lays against the tapered surface (115b) of the retainer (115), pivoting about the fulcrum edge (115a). <IMAGE>

IPC 1-7

**F04B 39/10**

IPC 8 full level

**F04B 39/10** (2006.01); **F04B 53/10** (2006.01); **F16K 15/08** (2006.01)

CPC (source: EP US)

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